
ALL CERAMIC RESTORATIONS
DR
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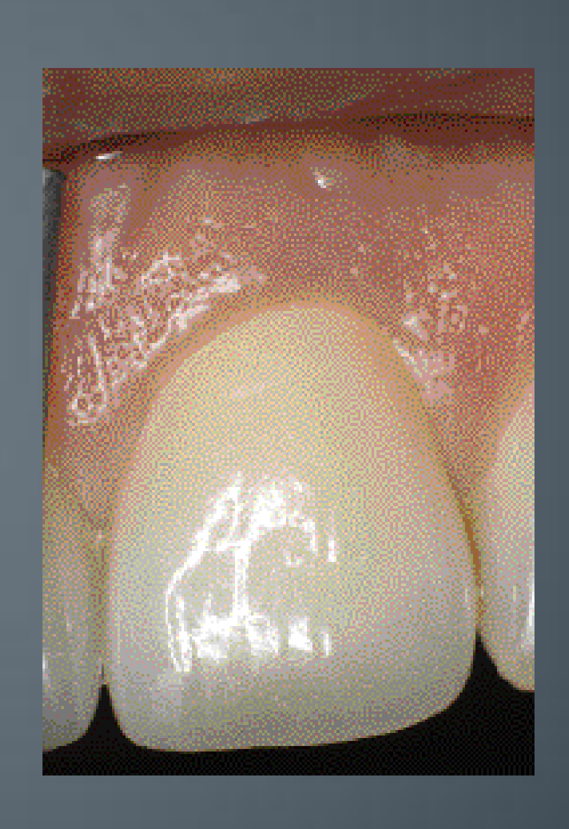
JACKET CROWN

- DEFINATION: IT IS A FULL COVERAGE RESTORATION ENTIRELY CONSTRUCTED FROM PORCELAIN
- ALL CERAMIC CROWNS……CONSTRUCTED FROM CERAMIC
- THESE CAN BE FABRICATED FROM BY THE TRADITIONAL TECHNIQUE, LOST WAX TECHNIQUE, MILLING.

ADVANTAGES

- Most esthetically pleasing
- Looks like natural tooth
- Good tissue response
- **Disadvantages:**
- Not conservative
- Strength is less than ceramo-metallic
- Sometimes increased wear of opposing arch

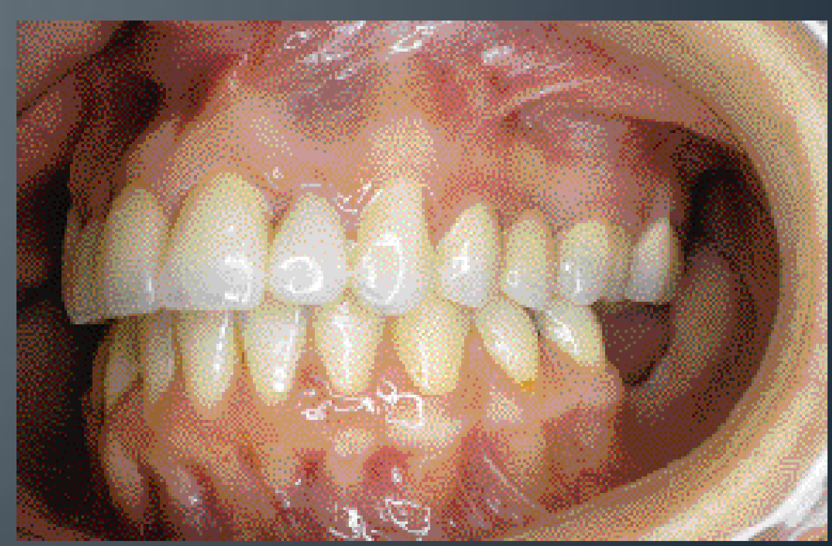
PORCELAIN CROWN IN SERVICE



- Indication:
- Where maximum esthetics are required
- Sufficient tooth structure
- Favourable occlusion
- Contraindication:
- Where more conservative restoration is avaliable
- Unfavourable occlusion or inability to prepare a 1mm shoulder FL all around

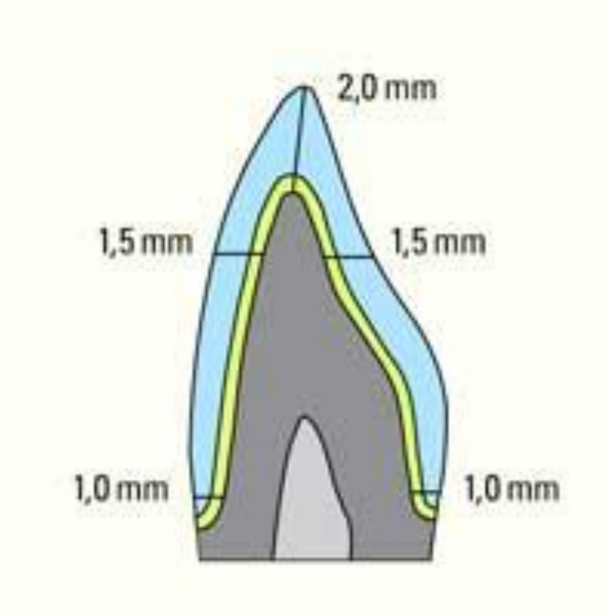
CORRECTION OF ESTHETICS





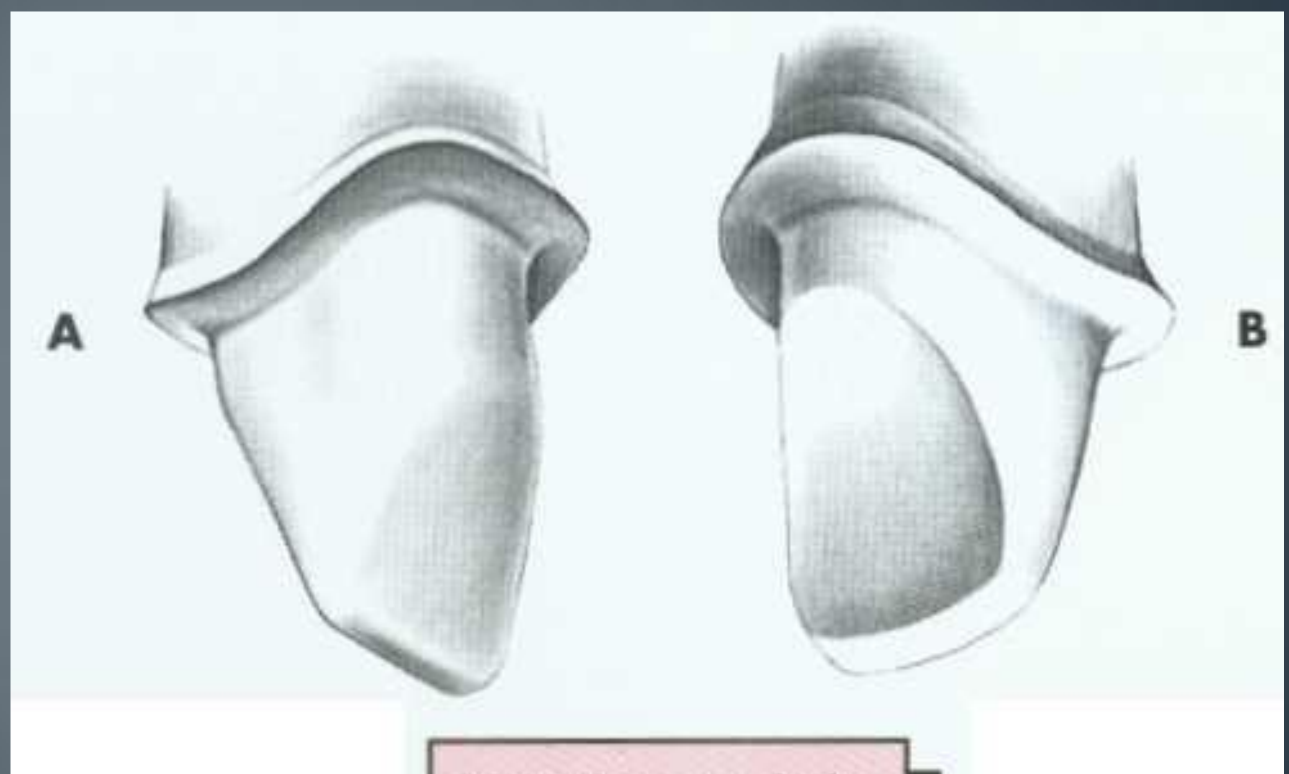
PREPARATION

- Shoulder/ radial shoulder FL/ Deep chamfer
- 1 mm thick all around.
- 1.5-2 mm incisal reduction
- Roundation of line angles


2,0 mm
1,5 mm
1,5 mm
1,0 mm
1,0 mm






A
B
Note the rounded internal line angles.



CONSTRUCTION

- TRADITONALLY IT WAS CONSTRUCTED ON A PLATINUM MATRIX ON AN ORDINARY REMOVABLE DIE.
- NOW WE USE REFRACTORY DIES (DIES THAT CAN WITHSTAND HIGH TEMPERATURE)
- PORCELAIN BUILT UP BY THE LAYERING TECHNIQUE
- RECENTLY CERAMIC CROWNS HAVE A CORE THAT IS OF A HIGH DENSITY CERAMIC (ALUMINA, ZIRCONIA)
- THIS IS COVERED WITH A NORMAL PORCELAIN VENEERING MATERERIAL